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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,574	06/24/2003	John J. O'Mahony	JHN-3659-67	8253
23117 7590 01/16/2008 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203			EXAMINER DEAK, LESLIE R	
			ART UNIT 3761	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

1 UNITED STATES PATENT AND TRADEMARK OFFICE

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4 BEFORE THE BOARD OF PATENT APPEALS  
5 AND INTERFERENCES  
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8 *Ex parte* JOHN J. O'MAHONY, MARK GELFAND,  
9 and EDWARD G. RYCHLICK  
10

11  
12 Appeal 2007-0696  
13 Application 10/601,574  
14 Technology Center 3700  
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16  
17 Decided: January 16, 2008  
18  
19

20 *Before:* TERRY J. OWENS, MURRIEL E. CRAWFORD, and JENNIFER  
21 D. BAHR, *Administrative Patent Judges.*

22  
23 CRAWFORD, *Administrative Patent Judge.*  
24

25  
26 DECISION ON APPEAL  
27

28 STATEMENT OF CASE

29 Appellants appeal under 35 U.S.C. § 134 (2002) from a final rejection  
30 of claims 82-85. Claims 1-36, 40, 44, 58-60 and 73 have been cancelled and  
31 claims 37-39, 41-43, 45-57, 61-72 and 74-81 have been withdrawn from  
32 consideration. We have jurisdiction under 35 U.S.C. § 6(b) (2002).

1 Appellants invented a method and apparatus for blood withdrawal and  
2infusion using a pressure controller (Specification 1).

3 Claims 82 and 84 under appeal read as follows:

4 82. A leak detector for a sterile contiguous fluid line for  
5 infusing a patient, the fluid line including a draw line connectable to  
6 at least one patient access and a return line connectable to said at least  
7 one patient access, said detector comprising:

8 a portion of the fluid line adapted to be interoperable with a  
9 pump actuator such that fluid may be conveyed therethrough;  
10 a filter, or filter connectors to permit connection to a filter, to  
11 complete a closed fluid circuit joining said draw and return lines;  
12 said pump actuator having a first configuration in which a  
13 positive pressure is generated in said return line and a second  
14 configuration in which a negative pressure in said return line, whereby  
15 a flow through said return line may be reversed when the pump  
16 actuator switches from the first configuration to the second  
17 configuration, and

18 a blood leak sensor coupled to said fluid line.  
19

20 84. A blood flow direction control device for a sterile  
21 contiguous fluid line for infusing a patient, the fluid line including a  
22 draw line connectable to at least one patient access and a return line  
23 connectable to said at least one patient access, said device comprising:

24 a portion of the fluid line adapted to be interoperable with a  
25 pump actuator such that fluid may be conveyed therethrough;  
26 a filter, or filter connectors to permit connection to a filter, to  
27 complete a closed fluid circuit joining said draw and return lines;  
28 at least a wetted portion of the portion of the fluid line and the  
29 pump actuator having a reverse flow operational mode in which the  
30 actuator generates a negative pressure in said fluid line, and a flow  
31 through said return line is reversed.

1 The Examiner rejected claims 82-85 under 35 U.S.C. §  
2102(b) as being anticipated by Kenley.<sup>1</sup>

3 The prior art relied upon by the Examiner in rejecting the claims on  
4appeal is:

5 Kenley US 5,690,831 Nov. 25, 1997  
6

7 Appellants contend that Kenley does not disclose a return line  
8connectable to at least one patient access.

9

10 ISSUE

11 Whether the Examiner erred in finding that Kenley discloses a return  
12line, connectable to at least one patient access, and in which a negative  
13pressure is generated by a pump actuator. This issue turns on whether  
14Kenley's line 450 is a return line which is "connectable" to at least one  
15patient access.

16

17 FINDINGS OF FACT

18 Kenley discloses and depicts in Figure 13, a blood flow direction  
19control device having a blood pump 458 which pumps blood drawn from a  
20patient to a dialyzer 404 then back to the patient. The device includes a  
21draw line 432 connectable to at least one patient access. After being  
22withdrawn from the patient, the blood flows through the dialyzer 404. After  
23leaving the dialyzer 404, the "blood is returned to the patient via line 470"  
24(Kenley, col. 26, l. 35). Before reaching the patient, the blood is sent  
25through an air-separating and pressure monitoring chamber 472 (Kenley,

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10<sup>1</sup> The Examiner has withdrawn the rejection of claims 82-85 under 35  
11U.S.C. § 103 (Answer, 3).

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1col. 26, ll. 36-38). The level of the blood in the pressure monitoring  
2chamber 472 can be changed by operating the blood pump 458 in reverse  
3(Kenley, col. 26, ll. 57-58; col. 50, ll. 7-10). This operation of the blood  
4pump in the reverse direction generates a negative pressure in return line  
5450. The return line 470 is connected through pressure monitoring chamber  
6472 to the patient access. Return line 470 is capable of being connected  
7directly to the patient access.

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#### ANALYSIS

10 We will sustain the Examiner's rejection because line 470 is a return  
11line connectable to a patient access as broadly recited in independent claims  
1282 and 84. We are not persuaded by Appellants' argument that line 470 is  
13not a return line because it does not directly connect to a patient access.  
14Firstly, the blood in line 470 is returning from the dialyzer 404 to the patient  
15and thus is a return line as broadly claimed. We note that Kenley discloses  
16that blood is returned to the patient via line 470 (Kenley, col. 26, l. 35). In  
17addition, although line 470 does not directly connect to a patient access, it is  
18nonetheless connected to the patient access through chamber 471 and line  
19492. We note that claims 82 and 84 do not recite that the return line is  
20*directly* connected to the patient access. Line 470 returns blood to a patient  
21and is connected, although not directly, to a patient access. In addition, as  
22claims 82 and 83 recite that the return line is *connectable* to a patient access,  
23the claims do not even require that the return line is connected to the patient  
24access only that the return line is capable of being connected to the patient  
25access. Line 470 of Kenley is certainly capable of being connected to a  
26patient access. We are also not persuaded by Appellants' argument that

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1reversing the blood pump 458 does not create a negative pressure in the  
2return line 470 and reverse blood flow in the line (App. Br. 11). In order to  
3reduce the level of blood in chamber 474 by reversing the blood pump 458,  
4as disclosed by Kenley, blood must be drawn from chamber 474 through  
5return line 470 by creation of a negative pressure.

6 In view of the foregoing, we will sustain the Examiner's rejection of  
7claims 82 and 84. We will also sustain the rejection as it is directed to  
8claims 83 and 85 because the Appellants have not argued the separate  
9patentability of these claims.

10 The decision of the Examiner is affirmed.

11 No time period for taking any subsequent action in connection with  
12this appeal may be extended under 37 C.F.R. § 1.136(a)(1)(iv) (2007).

13 AFFIRMED

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